TOTSTO' 8EEE7760

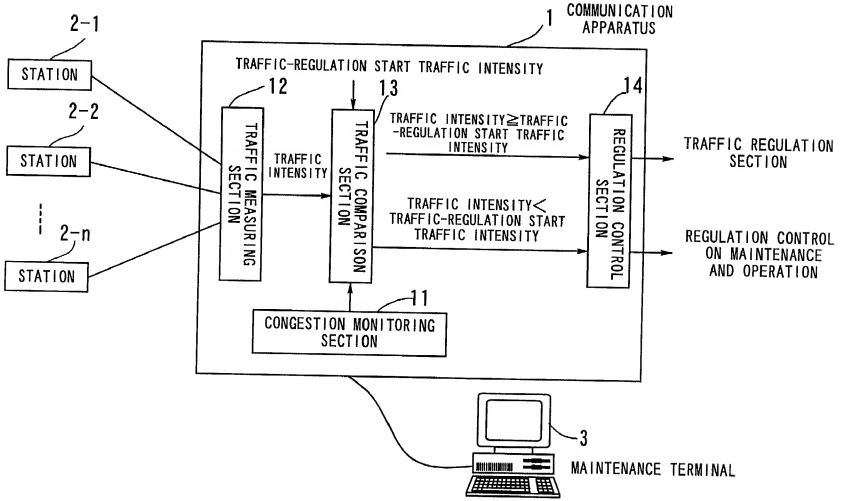


FIG. 1

T1 CC-DUTY-CYCLE AND CONGESTION-LEVEL SETTING TABLE

| CC OCCUPANCY RATE | CC-OCCUPANCY RATE ASSOCIATED CONGESTION LEVELS |
|---|---|
| CC 60% | LEVEL 1 |
| CC 70% | LEVEL 2 |
| CC 80% | LEVEL 3 |
| CC 90% | LEVEL 4 |

FIG. 2

T2

RESPONSE-TIME AND CONGESTION-LEVEL SETTING TABLE

| RESPONSE TIME | RESPONSE-TIME ASSOCIATED CONGESTION LEVELS |
|---|---|
| 5 sec | LEVEL 1 |
| 7 sec | LEVEL 2 |
| 9 sec | LEVEL 3 |
| 15 sec | LEVEL 4 |

FIG. 3

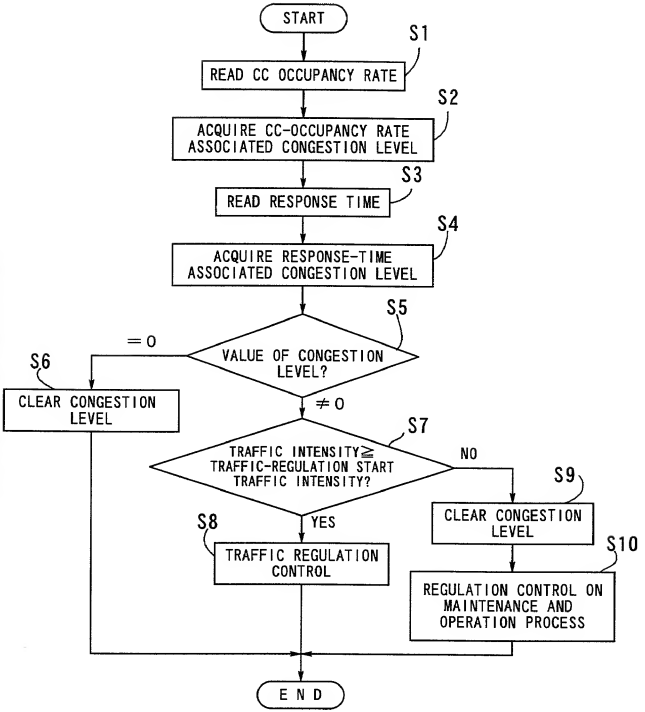
START
S1
READ CC OCCUPANCY RATE
S2
ACQUIRE CC-OCCUPANCY RATE ASSOCIATED CONGESTION LEVEL
S3
READ RESPONSE TIME
S4
ACQUIRE RESPONSE-TIME ASSOCIATED CONGESTION LEVEL
S5
VALUE OF CONGESTION LEVEL?
=0
≠0
S6
CLEAR CONGESTION LEVEL
S7
TRAFFIC INTENSITY≧ TRAFFIC-REGULATION START TRAFFIC INTENSITY?
NO
YES
S8
TRAFFIC REGULATION CONTROL
S9
CLEAR CONGESTION LEVEL
S10
REGULATION CONTROL ON MAINTENANCE AND OPERATION PROCESS
END

FIG. 4

T3 NUMBER-OF-REGULATION-TARGET TABLE

| CONGESTION LEVEL | NUMBER OF STATIONS TO BE REGULATED |
|---|---|
| 1 | 25 |
| 2 | 50 |
| 3 | 75 |
| 4 | 100 |

FIG. 5

PATENT-2022-0227460

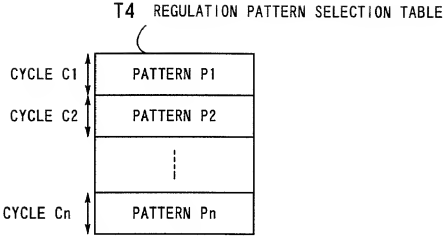


FIG. 6

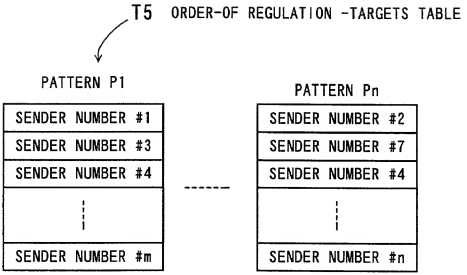
T5 ORDER-OF REGULATION -TARGETS TABLE
PATTERN P1
SENDER NUMBER #1
SENDER NUMBER #3
SENDER NUMBER #4
SENDER NUMBER #m
PATTERN Pn
SENDER NUMBER #2
SENDER NUMBER #7
SENDER NUMBER #4
SENDER NUMBER #n

FIG. 7

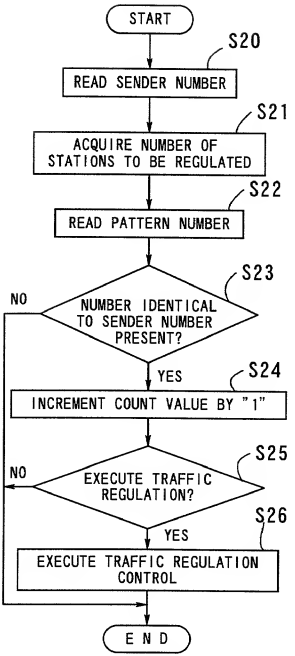
START
S20
READ SENDER NUMBER
S21
ACQUIRE NUMBER OF STATIONS TO BE REGULATED
S22
READ PATTERN NUMBER
S23
NUMBER IDENTICAL TO SENDER NUMBER PRESENT?
NO
YES
S24
INCREMENT COUNT VALUE BY "1"
S25
EXECUTE TRAFFIC REGULATION?
NO
YES
S26
EXECUTE TRAFFIC REGULATION CONTROL
END

FIG. 8

TOTCTO 9EEE7760

| REGULATION RATIO | 25% | | | | 50% | | | | 75% | | | | 100% | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| QUOTIENT OF COUNT VALUE÷4 | ≦250 | | | | 250～500 | | | | 501～750 | | | | ≧751 | | | |
| REMAINDER OF COUNTER VALUE÷4 | 0 | 1 | 2 | 3 | 0 | 1 | 2 | 3 | 0 | 1 | 2 | 3 | 0 | 1 | 2 | 3 |
| TRAFFIC REGULATION | ○ | ○ | ○ | × | ○ | × | ○ | × | ○ | × | × | × | × | × | × | × |

○ : NO REGULATION

× : REGULATION

FIG. 9

EP 2 077 660 A1

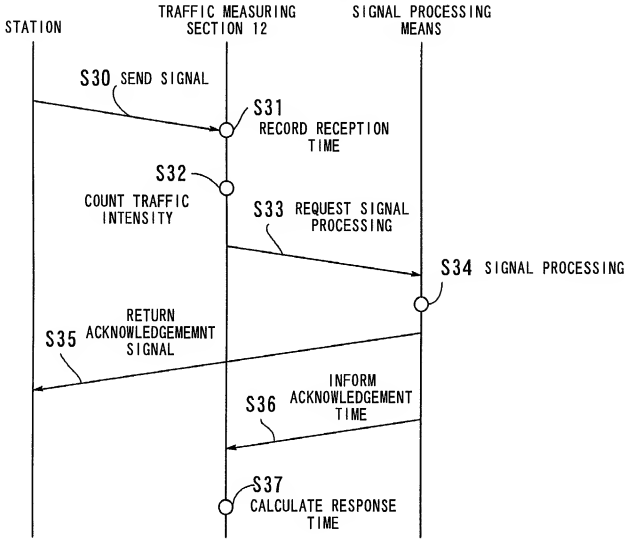


FIG. 10

TOTETO 8EEE2780

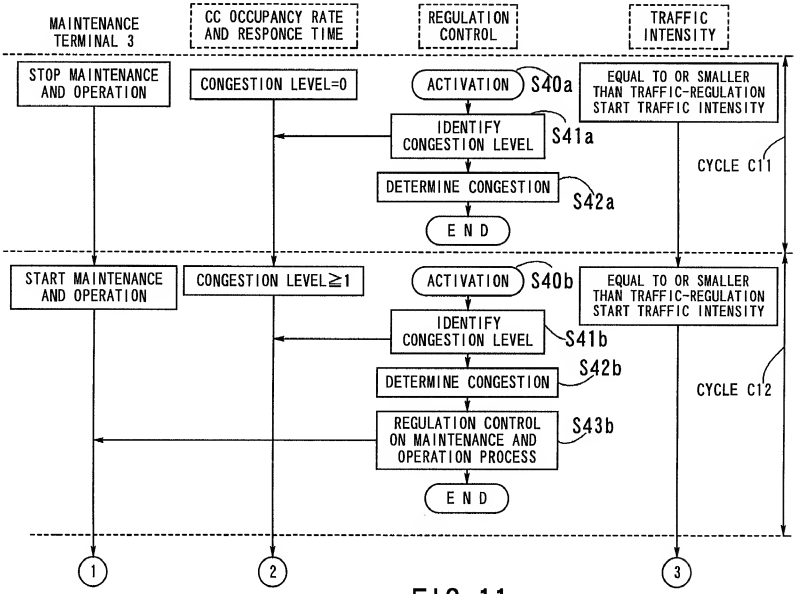


FIG. 11

09773339.013101

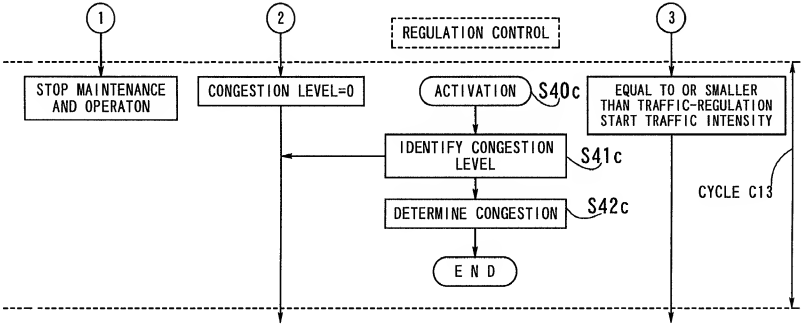


FIG. 12

JP2010-262460

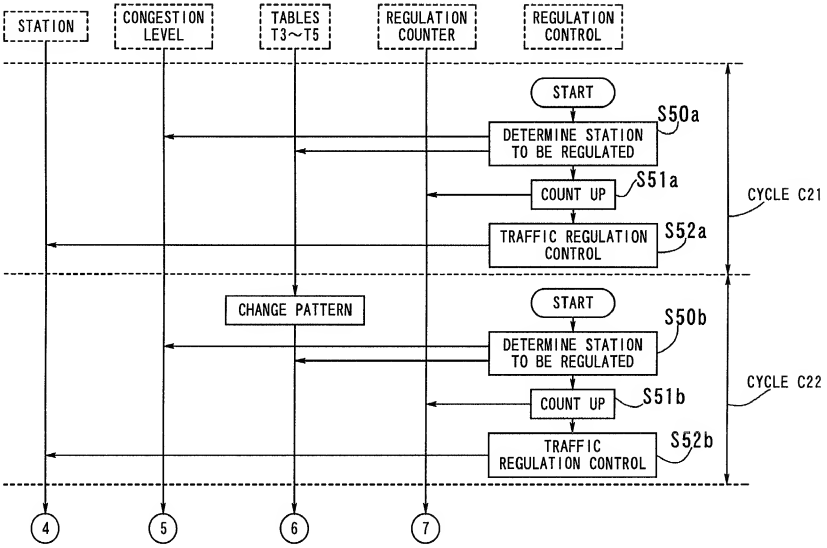


FIG. 13

TOTETD"6ESE2260

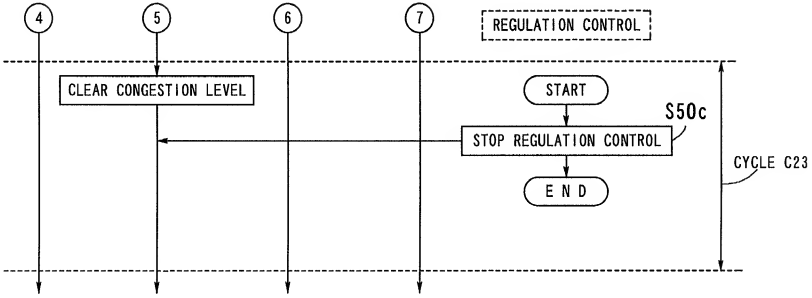


FIG. 14

TOTETO 6EEEZZ6D

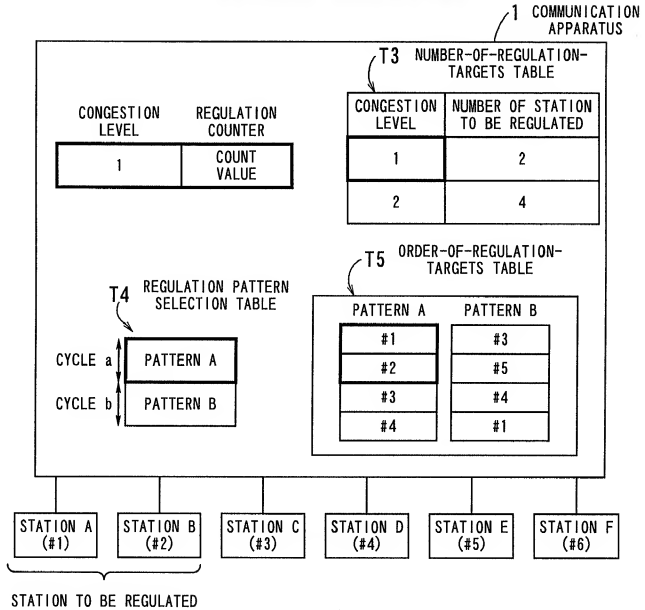


FIG. 15

TOTETO 6655Z760

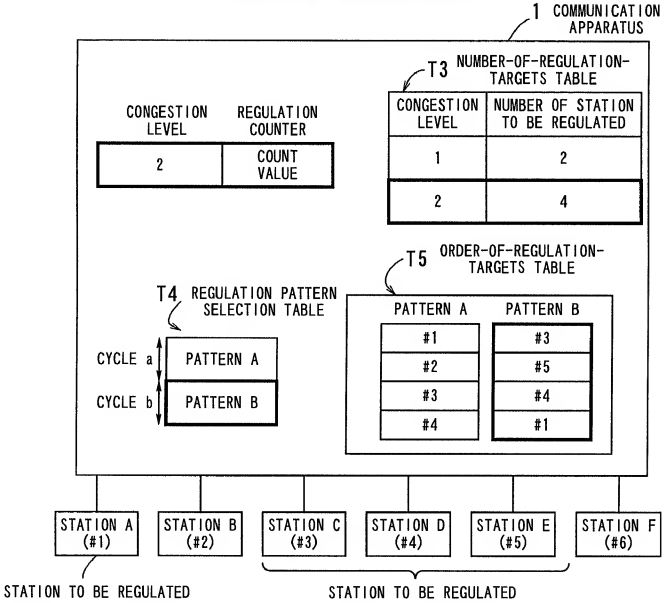


FIG. 16

TOTETO' 8EEE2760

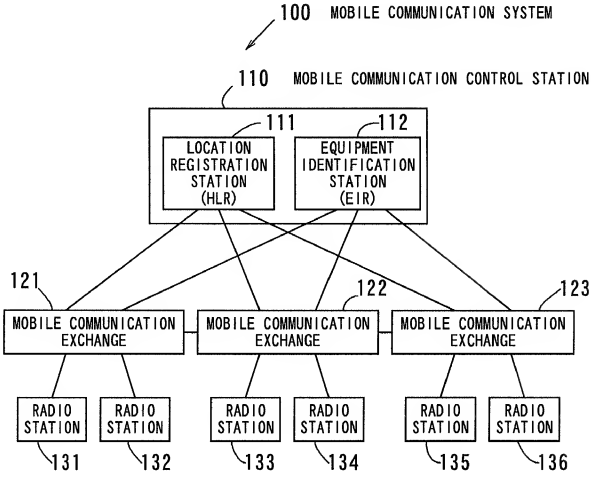


FIG. 17

TOTETO"6EEE4760

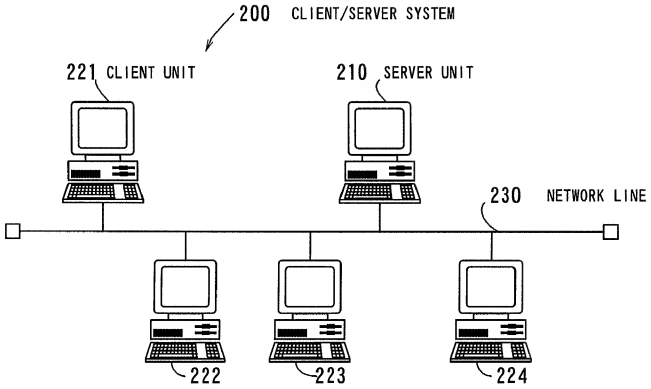


FIG. 18

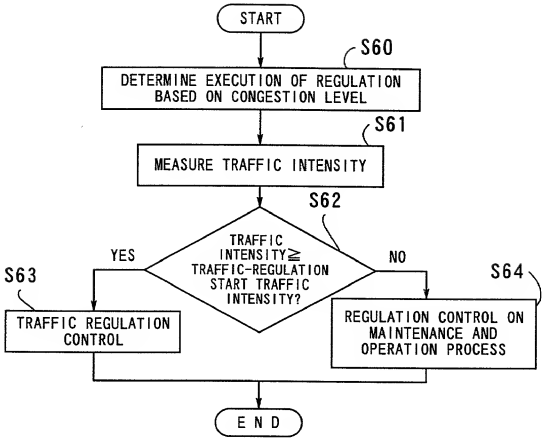
START
S60
DETERMINE EXECUTION OF REGULATION BASED ON CONGESTION LEVEL
S61
MEASURE TRAFFIC INTENSITY
S62
TRAFFIC INTENSITY ≧ TRAFFIC-REGULATION START TRAFFIC INTENSITY?
YES
NO
S63
TRAFFIC REGULATION CONTROL
S64
REGULATION CONTROL ON MAINTENANCE AND OPERATION PROCESS
END

FIG. 19